

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/01434

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :F04D 29/38

US CL :416/223R, 243

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 416/223R, 242, 243, Digest 2, Digest 5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

None

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, E	US 6,039,541A (PARKER et al) 21 March 2000.	
A	US 5,562,420A (TANGLER et al) 08 October 1996.	
A	US 5,417,548 (TANGLER et al) 23 May 1995.	
A	US 4,911,612A (RODDE et al) 27 March 1990.	
A	US 4,776,531A (NOONAN) 11 October 1988.	
A	TANGLER. J.L. et al. NREL Airfoil Families for HAWTs. National Renewable Energy Laboratory report. January 1995.	

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*E* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

04 APRIL 2000

Date of mailing of the international search report

03 JUL 2000

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

CHRISTOPHER VERDIER *Diane Smith*

Telephone No. (703) 308-0861